

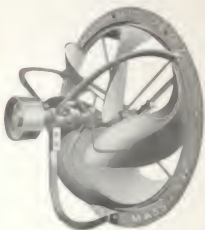
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# DA VENTILATING FANS



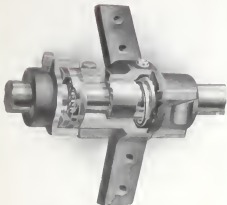
MASSACHUSETTS  
FAN COMPANY

WATERTOWN, MASS.



Davidson Propeller Fan

## DAVIDSON VENTILATING FANS



THE frame is of wrought and cast iron. The blades, which are compound curved to prevent back lash and avoid noise, are of flanged steel in the standard type; of copper, or galvanized steel when so required. Cast iron, babbitt lined bearings with large oil reservoirs and ring oilers insure constant lubrication. End thrust on the shaft is taken up by a series of hardened steel balls carried in a brass ring between steel collars. The fan on opposite page is right hand. Fans may be made left hand to order.



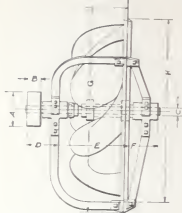
Davidson  
Propeller Fan  
with vertical shaft

# DAVIDSON VENTILATING FANS

THE Davidson Fan arranged for vertical shaft driving is fitted with a special extra large adjustable lower or thrust bearing made up of hardened steel discs running in a bath of oil. The entire weight of the fan and shaft is also carried by this bearing. The upper or guide bearing is of the ball and socket type lined with a removable graphite bushing. No lubrication or attention is necessary. In all other respects the vertical fans are identical with those of the horizontal type.

Diameter in inches	PULLEY FAN				ELECTRIC FAN	
	Steel Blades	Copper Blades	Galv. Blades	Weight	Price	Weight
12	\$ 30	\$ 47	\$ 33	12	Upon Application	Upon Application
18	40	50	44	46		
24	60	75	65	63		
30	80	95	85	110		
36	100	120	107	160		
42	125	150	135	230		
48	150	205	"	300		
54	185	248	"	520		
60	225	290	"	600		

In larger sizes up to 120 in., the pulley or motor is usually supported independently.



## Principal Dimensions in Inches

Size	Piston		Crank		Flywheel		Total	
	A	B	C	D	E	F	G	H
12	1	1 1/2	1	2 1/2	1	1	1 1/2	15
16	1	2	1 1/2	4 1/2	1 1/2	4 1/2	2 1/2	19 1/2
24	1	2	2 1/2	4 1/2	2 1/2	4 1/2	2 1/2	21 1/2
30	1	2 1/2	3 1/2	5	2 1/2	4 1/2	2 1/2	21 1/2
36	1	3	4 1/2	5 1/2	3 1/2	4 1/2	3 1/2	38
40	1	3 1/2	5 1/2	5 1/2	3 1/2	4 1/2	3 1/2	44
48	1	4	6 1/2	5 1/2	3 1/2	4 1/2	3 1/2	49 1/2
54	1 1/2	5	11 1/2	5 1/2	3 1/2	4 1/2	3 1/2	53 1/2
60	2	5	11 1/2	5 1/2	3 1/2	4 1/2	3 1/2	53 1/2

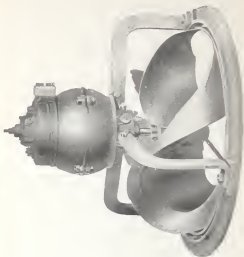


Davidson Fan  
and General Electric  
alternating-current motor

Sizes as following table:

Single phase 18 in. to 36 in.

Polyphase 18 in. to 48 in.

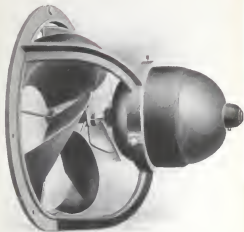


**Davidson Fan  
and Sprague  
direct-current motor**

Built in sizes 18 in. to 60 in.

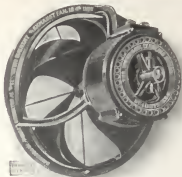


# DAVIDSON VENTILATING FANS



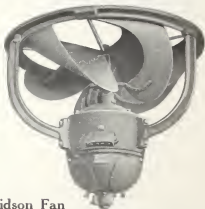
**Davidson Fan  
and Peerless  
direct-current motor**

Built in sizes 18 in. to 48 in.



### **Davidson Fan and Emerson Motor**

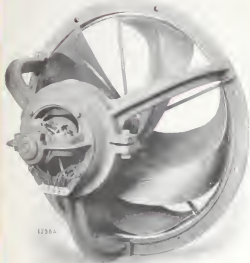
Built in sizes 12 in. to 24 in. Single phase alternating current.



### **Davidson Fan with Diehl direct-current motor**

Built in sizes 12 in. to 60 in. Also with horizontal shaft.

## DAVIDSON VENTILATING FANS



17564

**Davidson Fan  
with Fort Wayne  
direct-current motor  
Northern type**

Built in sizes 18 in. to 60 in.  
Also with closed motor or on special  
order with vertical shaft.

# Massachusetts Fan Company

General Office and Works  
WATERTOWN, MASS.

## Branch Offices

New York	Cleveland
Philadelphia	Pittsburg
Chicago	St. Paul